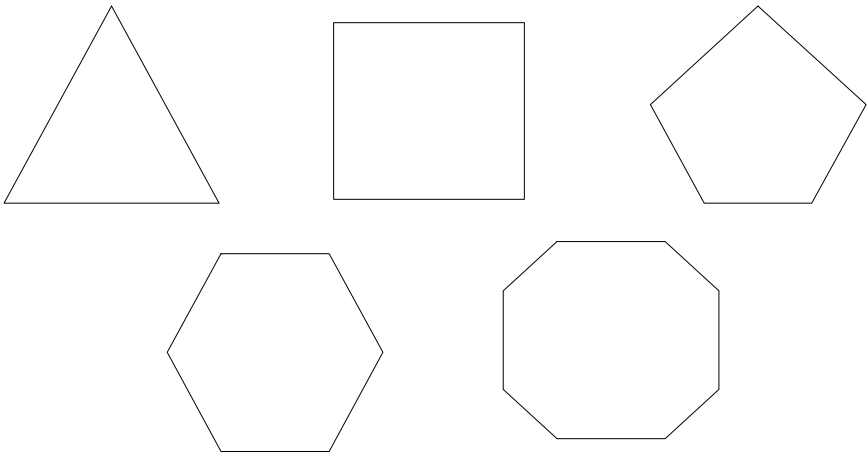


Regular Polygon Worksheet



- 1. Divide each of the regular polygons above into triangles by drawing a line from one of its vertices to each of its other vertices.
- 2. Use these drawings and the fact that every triangle’s interior angle measures total 180 degrees to complete the Polygon Discovery Chart below.
- 3. Try to come up with a pattern or formula to help you finish the chart without having to draw the remaining polygons. Will this method work for polygons that are not regular? Explain.

Polygon Discovery Chart

# of Sides	Name of Regular Polygon	# of Triangles	Sum of Interior Angles (# Triangles X 180)	Measure of each Interior Angle (Sum of angles/# of angles)
3	Triangle	1	180 degrees	60 degrees
4	Square			
5				
6				
7				
8				
9				
10				
12				
20				